U.S. DEPARTMENT OF ENERGY | OFFICE OF ENVIRONMENTAL MANAGEMENT

Building 235-F Status

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DOE-Savannah River

Facilities Disposition and Site Remediation Committee
December 3, 2013

Purpose

- Provide information regarding ongoing risk reduction activities in the 235-F Facility

- Update Recommendation 293 in accordance with 2013 Work Plan

Building 235-F

Recommendation 293

Recommendation 293 supports Defense Nuclear Facility Safety Board 2012-1 Response (summary of recommendations)

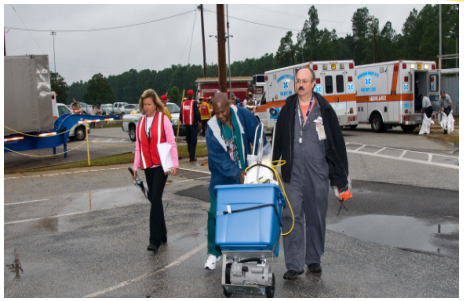
- Immobilize and/or remove the residual Pu-238
- Remove all transient and fixed combustibles that are not directly necessary for activities
- Ensure all necessary electrical equipment is in a safe configuration
- Evaluate operability of early detection and alarm systems
- Ensure an integrated emergency response plan is in place
- Ensure periodic coordinated drills in response to a simulated event at 235-F are conducted

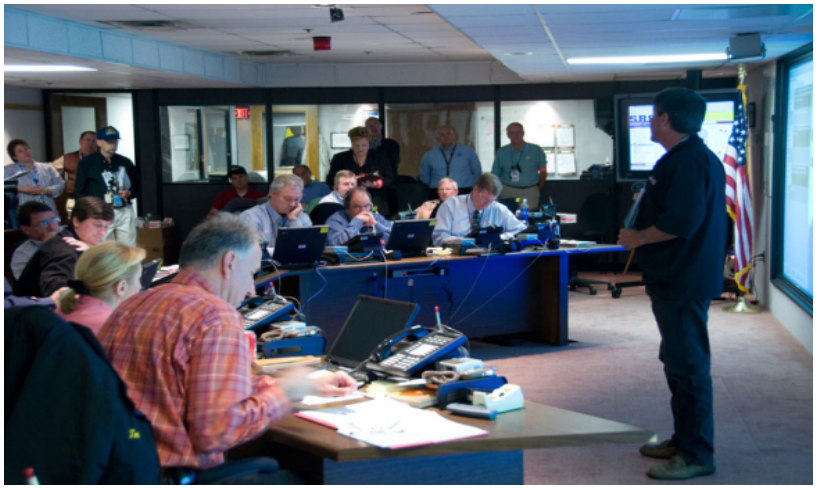
Building 235-F Status

- One year behind us of implementing actions to respond to DNFSB Recommendation 2012-1
- Up to the point at which budget sequestration began in FY 2013, 9 of 10 actions due had been completed. Remaining item will be completed by December 31, 2013
- Project Plan has been revised to reflect the effects of 2013 sequestration and FY 2014 Continuing Resolution
- FY 2014 project funding is currently at $5M. This figure can change as the year progresses, depending on the direction taken by Congress

Building 235-F

Key 2013 Accomplishments



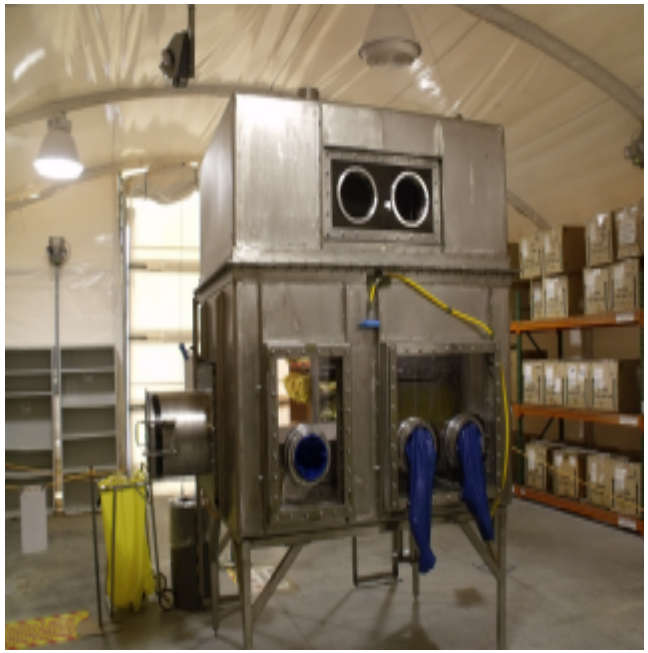


Emergency Preparedness Drill

- Development and implementation of a transient combustible control program
  - Development of a specific plan for fixed combustible removal, and
  - Development of a specific plan for de-energization of unnecessary electrical circuits in the building
- Completion of technical work to upgrade the existing Fire Detection and Alarm System (FDAS)
- Planning and conduct of Emergency Preparedness drills in F Area and adjacent construction sites

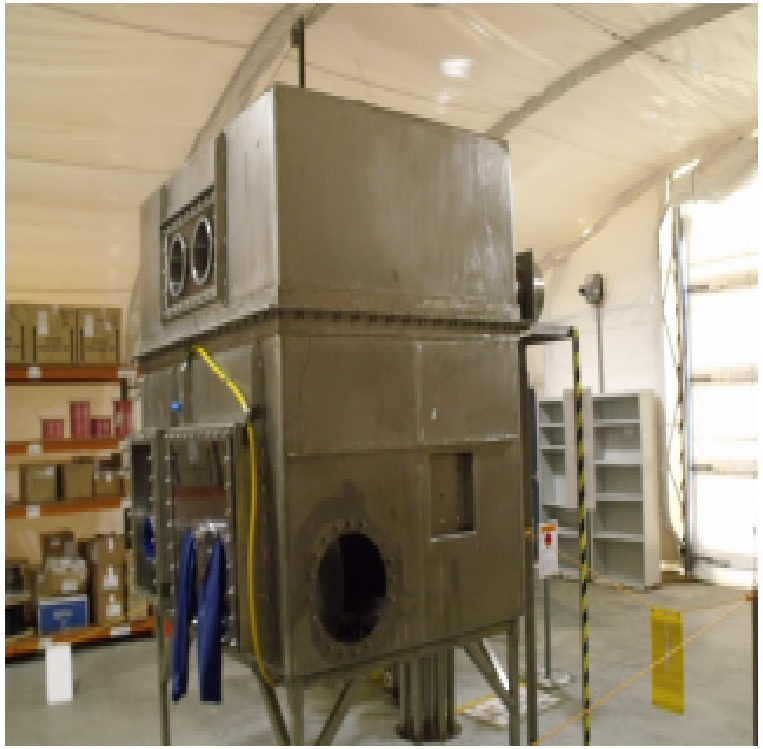
Key 2013 Accomplishments

- Formation of a core project management team (including Project Manager with high-impact project experience at SRS and Rocky Flats)
- Completion of a detailed Project Deactivation Plan covering the full life-cycle of the project
- Fabrication and installation of a cell mock up for process and procedure development and validation, process training, operator qualification, work planning, and similar tasks



235-F Cell Mock Up

Key Plans for FY 2014



235-F Cell Mock Up

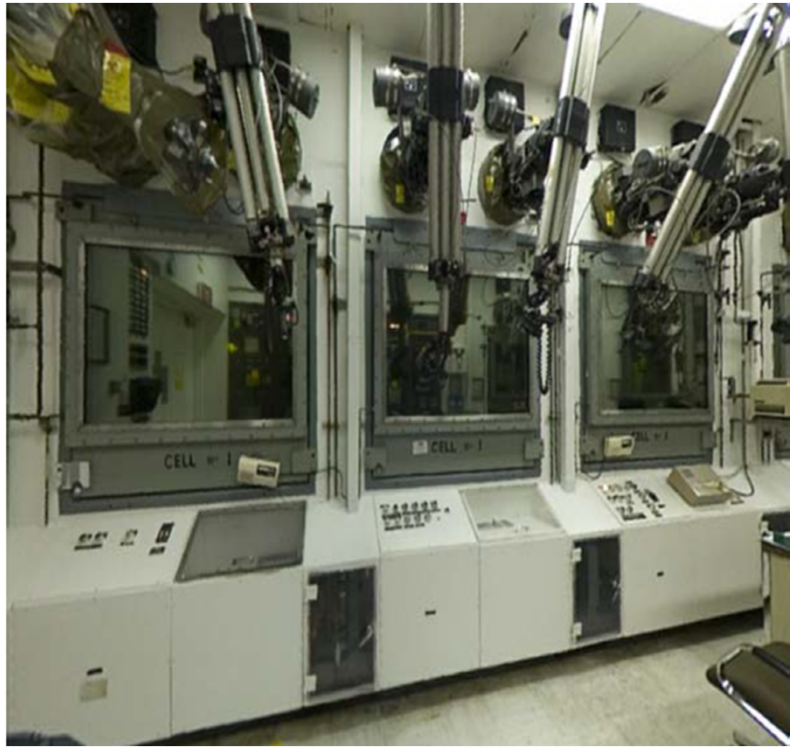
- Crew Retention and Training
  - Funding in 2014 keeps crew members with extensive hands-on experience working together and prepares them to move into cleanup phase of the project
- Use of the mock-up facility
  - Used for process and procedure development, training development, training conduct and evaluation, experiments with tools, and field-testing prototypes
  - Drill training for off-normal events

Key Plans for FY 2014

Plutonium Fuel Form (PuFF) Cell

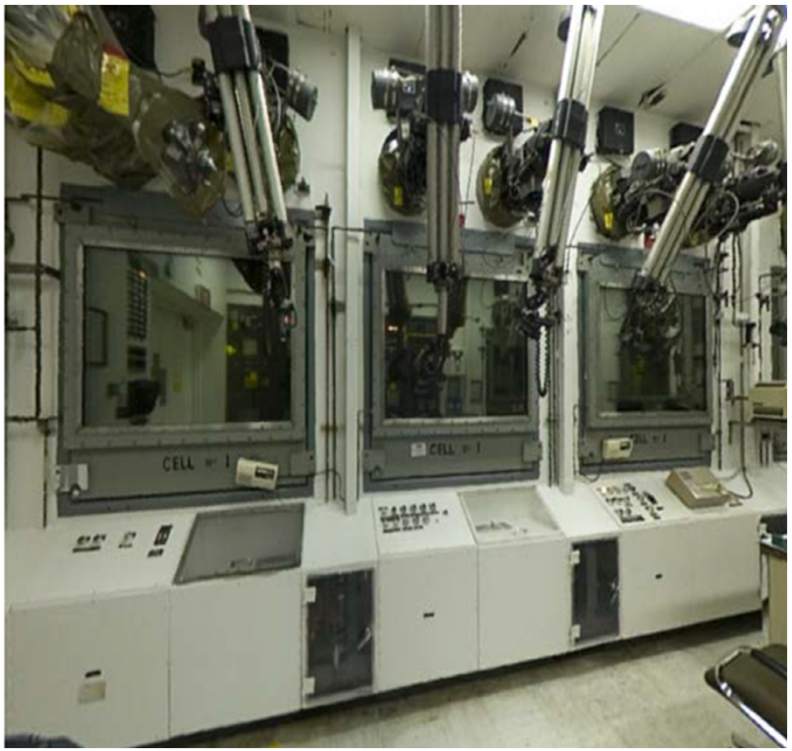
- Technical Document Preparation and Planning
  - Technical documents will be developed in FY 2014 to support activities such as development of the cell-by-cell decontamination and equipment removal approach, completing the design for the breathing air distribution system, and preparing electrical and mechanical isolation for cells 6-9
- Deactivation Bases for Interim Operations Implementation (BIO) progress
  - Implement a Safety Basis Implementation Plan to implement the portions of the Deactivation Safety Basis that can be implemented without allowing the project to proceed into the cell clean-up phase
  - Fire Detection Alarm and Detection System installation, testing, and acceptance

Summary



Plutonium Fuel Form (PuFF) Controls

- Up to the point at which budget sequestration began in FY 2013, 9 of 10 actions due had been completed. Remaining item will be completed by December 31, 2013
- Project Plan has been revised to reflect the effects of 2013 sequestration and FY 2014 Continuing Resolution
- Plans for FY 14 include retention and training of crew, upgrade fire alarm and detection system, and begin safety basis implementation
- FY 2014 project funding is currently at $5M. This figure can change as the year progresses, depending on the direction taken by Congress



Plutonium Fuel Form (PuFF) Cell Controls

Questions